PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference F-913 WO	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/EP2005/050526	International filing date (day/month/year) 08 February 2005 (08.02.2005)	Priority date (day/month/year) 13 February 2004 (13.02.2004)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237						
Applicant TOTAL PETROCHEMICALS RESEARCH FELUY						

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	3. This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Вох №. П	Priority	·			
	Box No. III	Non-establishment of op- applicability	inion with regard to novelty, inventive step and industrial			
	Box No. IV	Lack of unity of inventio	n			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on t	he international application			
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).					
			Date of issuance of this report 14 August 2006 (14.08.2006)			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		lombettes	Authorized officer Ellen Moyse			
Facsi	Facsimile No. +41 22 338 82 70 e-mail: pt05@wipo.int					

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

rom the ITERNATIONAL SEARCHING AUTHO	DRITY		REC'D 1 9 MAY 2005
То:		,	P PCT
see form PCT/ISA/220		INTERNATION	EN OPINION OF THE IAL SEARCHING AUTHORIT OCT Rule 43 <i>bis</i> .1)
	11	Date of mailing (day/month/year) see	form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220	1	FOR FURTHER A See paragraph 2 below	
International application No. PCT/EP2005/050526	International filing date (date 08.02.2005	y/month/year)	Priority date (day/month/year) 13.02.2004
International Patent Classification (IPC) or C08F6/00	both national classification ar	nd IPC	
Applicant TOTAL PETROCHEMICALS RES	SEARCH FELUY		
1. This opinion contains indicati		wing items:	
Box No. I Basis of the o	pinion	•	
☐ Box No. II Priority			to describe a souther billing
		d to novelty, inventi	ve step and industrial applicability
☐ Box No. IV Lack of unity of	of invention		and the importance atom or industrial
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain docur			
	ts in the international appli	ication	
☐ Box No. VIII Certain obser			
2. FURTHER ACTION			
If a demand for international pro- written opinion of the Internation the applicant chooses an Author International Bureau under Rule will not be so considered.	nal Preliminary Examining	be the IPEA and the	chosen IPEA has notifed the
- L-t++-t- IDCA - written ret	alu tagathar Whara anniar	mare with amenum	IPEA, the applicant is invited to ents, before the expiration of three n of 22 months from the priority date,
For further options, see Form F			
3. For further details, see notes to	Form PCT/ISA/220.		
Name and mailing address of the ISA:		Authorized Officer	organica Patran

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

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International application No. PCT/EP2005/050526

	Box N	o. I Basis of the opinion				
1.	With regard to the language , this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.					
	laı	is opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).				
2.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:					
a. type of material:						
		a sequence listing				
		table(s) related to the sequence listing				
b. format of material:						
		in written format				
		in computer readable form				
	c. time	e of filing/furnishing:				
		contained in the international application as filed.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3	h	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as ppropriate, were furnished.				
4	. Addit	onal comments:				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/050526

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-16

Inventive step (IS)

Yes: Claims

No:

Claims

1-16

Industrial applicability (IA)

Yes: Claims

1-16

No: Claims

2. Citations and explanations

see separate sheet

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2005/050526

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The following document (D1) is referred to in this communication:

D1: US-B-6 566 4601 (SALMON EMIGDIO J) 20 May 2003 (2003-05-20)

1 The present application does not meet the requirements of Article 33 PCT, because the subject-matter of claims 1 to 16 is not new in the sense of Article 33(2) PCT.

Document D1 discloses (ref. fig. 1 and 3 and examples 2 and 3) an apparatus and a process for recovering polymer solids form a polymerisation effluent that comprises a flash vessel (121,321), a purge vessel (141,341) and a transfer vessel (371) positioned between the flash and the purge vessel. All three vessels are operated at different pressures. The apparatus further comprises valves (335,385,387) between the three vessels which are controlled by (not shown) level controllers in the flash tank (ref. col. 6, line 10) and the transfer tank (ref. 60 to 61) that measure the level of polymer solids. The valves are used for controlling the rate of polymer solids exiting out of the flash and the transfer vessel. The levels of polymer solids in the flash and the transfer vessels are kept at a minimum level such that a dynamic seal is provided with the corresponding down stream vessel (ref. col. 6, lines 60 to 63 and col. 7, lines 9 to 12). Although not explicitly shown, it can be acknowledged that so called "processing means" (claim 2) are present in D1 as the control of the valves as a function of the solid level would not be possible without.